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西藏蔓龙胆属(龙胆科)二新种*

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TWO NEW SPECIES OF *CRAWFURDIA* (GENTIANACEAE) FROM XIZANG(TIBET), CHINA

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Key words　*Crawfurdia*; *C. nyingchiensis* K. Yao et W. L. Cheng; *C. lobatilimba* W. L. Cheng; New species
关键词　蔓龙胆属; 林芝蔓龙胆; 裂膜蔓龙胆; 新种

1　林芝蔓龙胆　新种　图 1: 1～4

Crawfurdia nyingchiensis K. Yao et W. L. Cheng, sp. nov. TYPE: Xizang(Tibet 西藏), Nyingchi(林芝), in coniferous forest, alt. 2870 m, 1994-09-24, Tsangpo River Exped. 0876(holotype, XZE-Herb. Inst. Plateau Ecol. Tibet; isotype, NAS). Fig. 1: 1～4

A *C. speciosa* Wall. foliis magnis 7～12 mm longis 4.5～6.5 mm latis, pedicello brevi 2～8 mm longo, lobis calycis lanceolatis vel ovato-lanceolatis 3.5～6 mm longis, anthera brevi 3 mm longa differt.

Herba perennis volubilis, omnino glabra. Caulis flavo-viridis, purpureo-maculatus, internodiis 12～18 cm longis. Folia caulina ovata, 7～12 cm longa, 4.5～6.5 cm lata, apice caudato-acuminata, basi subcordata, margine undulata; nervi basales (3)5～7, petioli 1.5～2.5 cm longi, basi amplexicaules. Cyma axillaris, pedunculata; pedunculus 0.5～1 cm longus; pedicelli 2～8 mm longi, bracteolati; bracteolae lanceolatae, usque ad 1.2 cm longae vel nullae; calyx flavo-viridis, tubo 1～1.3 cm longo, lobis lanceolatis vel ovato-lanceolatis, 3.5～6 mm longis, 1～2 mm latis, sinubus truncatis intus basi lamellis angustis instructis; corolla purpurea, campanulata, 3.5～4.7 cm longa, lobis ovato-triangularibus 4～6 mm longis 5～7 mm latis, plicis semiorbiculatis c. 1 mm longis c. 2 mm latis, margine leviter undulato; stamina medio tubi corollae inserta, filamentis lanceolatis 2～3 mm latis, antheris 3 mm longis; ovarium anguste ellipsoideum, 1.2～1.4 cm longum, stipite 0.8～1.2 cm longo basi 5-glandulifero; stylus filiformis, 4～5 mm longus; stigma oblongum, 2-lobutum. Florescens in Sept.

Xizang(Tibet 西藏): Nyingchi(林芝), in coniferous forest, alt. 2920 m, W.L. Zheng

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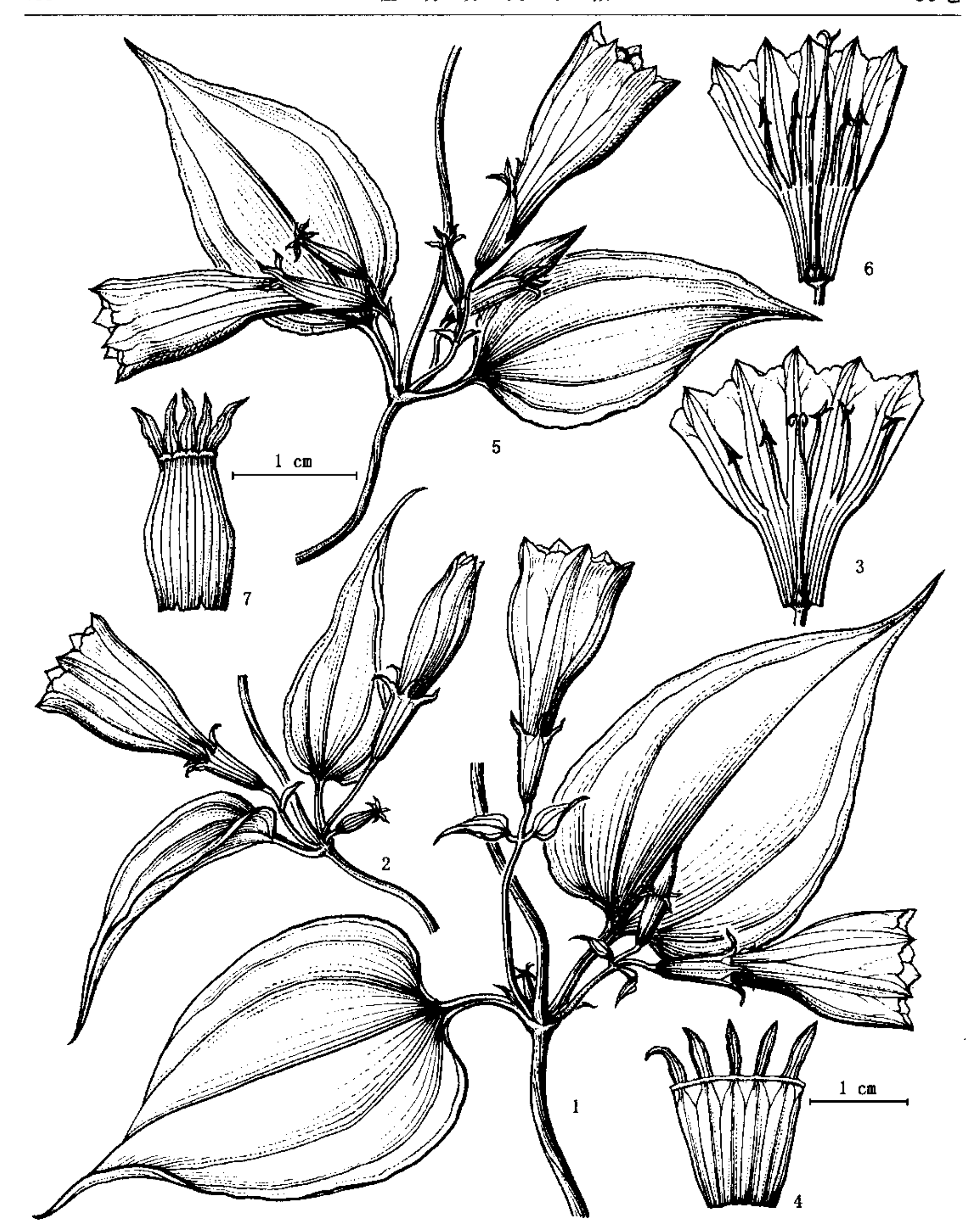


图1 1~4. 林芝蔓龙胆 1. 下部花枝；2. 上部花枝；3. 花冠纵剖；4. 花萼腹面(放大1倍)。5~7. 裂膜蔓龙胆 5. 花枝；6. 花冠纵剖；7. 花萼腹面(放大1倍)。(张海燕 绘)

Fig. 1 1~4. *Crawfurdia nyingchiensis* K. Yao et W. L. Cheng 1. Lower flowering branch; 2. Upper flowering branch; 3. Corolla opened; 4. Inside of calyx(×2). 5~7. *Crawfurdia lobtilimba* W. L. Cheng 5. Flowering branch; 6. Corolla opened; 7. Inside of calyx(×2).

(郑维列)0628; Bomi(波密), alt. 2600 m, 1994-10-18, Tsangpo River Exped. 1189.

多年生缠绕草本,全株无毛。茎淡黄绿色,稍具紫色斑点,节间长 12~18 cm。茎生

叶卵形,长 7～12 cm,宽 4.5～6.5 cm,先端尾状渐尖,基部浅心形,边缘波状,叶脉(3)5～7,叶柄长 1.5～2.5 cm,抱茎。聚伞花序腋生,花序梗长 0.5～1 cm,花梗长 2～8 mm;小苞片披针形,长 1.2 cm,或无;花萼淡黄绿色,萼筒长 1～1.3 cm, 裂片披针形或卵状披针形,长 3.5～6 mm,宽 1～2 mm,弯缺截形,基部具狭的萼内膜;花冠紫色,钟状,长 3.5～4.7 cm, 裂片卵状三角形,长 4～6 mm,宽 5～7 mm,褶半圆形,长约 1 mm,宽约 2 mm,边缘微波状;雄蕊着生于花冠筒中部,花丝披针形,宽 2～3 mm;花药长 3 mm;子房狭椭圆形,长 1.2～1.4 cm,子房柄长 0.8～1.2 cm,基部具 5 枚腺体;花柱线形,柱头长圆形,2 裂。花期 9 月。

与穗序蔓龙胆 *C. speciosa* Wall. 区别在于叶较大,长 7～12 cm,宽 4.5～6.5 cm;花梗较短,长 2～8 mm; 萼裂片披针形或卵状披针形,长 3.5～6 mm;花药较短,长 3 mm。

2 裂膜蔓龙胆 新种 图 1: 5～7

Crawfurdia lobatilimba W. L. Cheng, sp. nov. TYPE: Xizang(Tibet 西藏), Nyingchi(林芝), alt. 2400 m, in broad leaf forest, 1996-10-18, W. L. Zheng(郑维列)0967 (holotype, XZE-Herb. Inst. Plateau Ecol. Tibet). Fig. 1: 5～7

Species calycis lamellis internis lobatis lobis parvis semicircularibus vel indivisis et atro-glandulifero-serratis a congeneribus diversa. Habitu *C. speciosae* Wall. affinis, sed tubo calycis longiore 1.3～1.6 cm longo, lobis lanceolatis vel ovato-lanceolatis 5～7 mm longis 2～3 mm latis differt.

Herba perennis volubilis, omnino glabra. Caulis viridis, purpureo-suffusus, internodiis 10～16 cm longis. Folia ovata, 3.5～5.7 cm longa, 1.3～3.3 cm lata, vel majora, apice acuminata, basi rotundata, margine crispa integra anguste membranacea; nervi basales 3～5 (～7) nervis marginalibus debilioribus; petioli 4～7 cm longi, basi amplexicaules. Flores solitarii vel cymae 3-florae, axillares; pedicelli 1～8 cm longi, bracteolati; bracteolae parvae vel foliiformes, vel nullae; tubus calycis latere uno ad medium dehiscens, 1.3～1.6 cm longus, lobis lanceolatis vel ovato-lanceolatis 5～7 mm longis 1～2 mm latis, sinubus acutis, lamellis internis lobatis, lobis semiorbicularibus, lobulis vulgo bilolulatis apice atro-glandulosis, vel lamellis internis indivisis margine atro-glanduloso-serratis; corolla purpurea, campanulata, 3.5～4 cm longa, lobis oblique ovato-triangularis 3～4 mm longis 5～7 mm latis, plicis oblique semicircularibus 1 mm longis 2～3 mm latis margine subintegris; stamina medio tubi corollae inserta, filamentis 15～17 mm longis utrinque subaequilate alatis, alis c. 1 mm latis, antheris sagittatis 3～4 mm longis; ovarium anguste ellipsoideum, 1.8～2 cm longum, stipite 1.3～1.5 cm longo basi 5-glandulifero; stylus c. 3 mm longus; stigma c. 1 mm longum, 2-lobutum. Capsula vulgo exserta. Florencens in Oct.

多年生缠绕草本,全株无毛。茎带紫色,节间长 10～16 cm。叶卵形,长 3.5～5.7 cm,宽 1.3～3.3 cm,或更大,先端渐尖,基部圆形;叶脉 3～5(～7),边脉较弱,边缘狭膜质,皱波状;叶柄长 4～7 mm,抱茎。单花或 3 花呈聚伞花序,腋生。花梗长 1～8 cm;有小苞片或缺,细小或叶状;花萼筒一侧开裂至中部,长 1.3～1.6 cm, 先端内面具开裂成近半圆形的萼内膜,小裂片常稍 2 裂,先端具暗色腺点,或萼内膜不裂而具暗色腺齿;萼裂片

披针形或卵状披针形,长约 1 mm,宽 2～3 mm,弯缺尖;花冠紫色,钟形,长 3.5～4 cm,裂片卵状三角形,长 3～4 mm,宽 5～7 mm,偏斜,褶偏斜,半圆形,长约 1 mm,宽 2～3 mm,近全缘;雄蕊着生于花冠筒中部,花丝长 15～17 mm,两边具近等宽的翅,翅宽约 1 mm,花药箭形,长 3～4 mm;子房长椭圆形,两端渐狭,长约 1.8～2 cm,柄长约 1.3～1.5 mm,基部具 5 枚腺体,花柱长约 3 mm,柱头长约 1 mm,2 裂。蒴果常伸出花冠。花期 10 月。

本种以萼内膜裂成近半圆形的裂片或不裂而具暗色腺齿,与本属其它种类均不同。体态近 *C. speciosa* Wall.,但本种萼筒较长,1.3～1.6 cm,萼裂片披针形或卵状披针形,长 5～7 mm,宽 2～3 mm 而不同。

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